

WHAT IS CLAIMED:

1. A bicycle towing device for towing a trailing bicycle behind a leading bicycle, comprising:
 - a leading bicycle connection member connectable to a leading bicycle;
 - a trailing bicycle connection member having an upper frame connection member and a lower frame connection member, said lower frame connection member being connectable to a front fork of the trailing bicycle and said upper frame connection member being connectable to a portion of the trailing bicycle above said front fork;
 - a tow bar interconnecting said leading bicycle connection member to said trailing bicycle connection member.
2. The bicycle towing device of claim 1, wherein said upper frame connection member includes at least one clamp connectable to an upper portion of the trailing bicycle.
3. The bicycle towing device of claim 2, wherein said upper frame connection member includes a pair of clamps that are connectable to a handlebar of the trailing bicycle.
4. The bicycle towing device of claim 3, wherein said pair of clamps are spaced apart from each other to allow a neck of the trailing bicycle to fit there between.
5. The bicycle towing device of claim 4, wherein said upper frame connection member comprises a pair of spaced-apart bars, each of said bars having a respective one of said pair of clamps located at an end of each thereof.
6. The bicycle towing device of claim 4, wherein said upper frame connection member comprises a single bar extending away from said lower frame connection member

that forks into two prongs with a respective one of said pair of clamps located at an end of each of said prongs.

7. The bicycle towing device of claim 2, wherein each of said clamps includes at least one interchangeable insert that provides a gripping surface for gripping the trailing bicycle, wherein said at least one interchangeable insert is selectable to provide a desired gripping surface to accommodate the portion of the trailing bicycle to which the clamp is being attached

8. The bicycle towing device of claim 1, wherein said lower frame connection member includes a pair of spaced-apart members that are spaced apart from each other to allow a front wheel of the trailing bicycle to fit there between, wherein each of said pair of spaced-apart members are connectable to respective portions of the front fork of the trailing bicycle.

9. The bicycle towing device of claim 1, wherein said trailing bicycle connection further includes:

a pivotal arm; and

a pivotal joint attached to said pivotal arm, said pivotal joint further being attached to said lower frame connection member and said upper frame connection,

wherein said pivotal joint allows said pivotal arm to rotate with respect to said lower frame connection member and said upper frame connection.

10. The bicycle towing device of claim 9, wherein said tow bar is removably attachable to said pivotal arm.

11. The bicycle towing device of claim 9, wherein said lower frame connection member and said upper frame connection are both pivotally attached to said pivotal joint.

12. The bicycle towing device of claim 1, wherein said leading bicycle connection member includes:
- a bi-directional joint allowing pivotal movement in two rotational directions;
 - a pivotal arm pivotally connected to one side of said bi-directional joint, wherein said tow bar is removeably attachable to said pivotal arm; and
 - a clamp pivotally connected to another side of said bi-directional joint, wherein said clamp is connectable to said leading bicycle.
13. The bicycle towing device of claim 12, wherein said pivotal arm and said clamp are pivotal with respect to said bi-directional joint about different rotational axes.
14. The bicycle towing device of claim 12, wherein said clamp is connectable to a seat post of said leading bicycle.
15. The bicycle towing device of claim 12, wherein said clamp includes at least one interchangeable insert that provides a gripping surface for gripping the leading bicycle, wherein said at least one interchangeable insert is selectable from a plurality of possible inserts to provide a desired gripping surface to accommodate a portion of the leading bicycle to which the clamp is being attached.
16. The bicycle towing device of claim 1, wherein, when connected to said leading bicycle and said trailing bicycle, said bicycle towing device causes said trailing bicycle to lean at substantially the same angle as said leading bicycle at all times.

17. The bicycle towing device of claim 1, wherein said tow bar is removably attachable to said leading bicycle connection member and said trailing bicycle connection member.

18. A bicycle towing device for towing a trailing bicycle behind a leading bicycle, comprising:

a first clamp connectable to a leading bicycle;

a bi-directional pivotal joint connected to said first clamp including two axes of rotation that extend in substantially perpendicular directions;

a tow bar having a first end and a second end, said first end of said tow bar being connected to said bi-directional joint, said first clamp being pivotal in two rotational directions with respect to said tow bar; and

a trailing bicycle connection connectable to a trailing bicycle, wherein said trailing bicycle connection is further pivotally connected to said second end of said tow bar.

19. The bicycle towing device of claim 18, wherein said trailing bicycle is only pivotal with respect to said tow bar about one axis of rotation that extends in a direction substantially parallel as one of the rotational axes of said bi-directional pivotal joint.

20. The bicycle towing device of claim 18, wherein said trailing bicycle connection member includes an upper frame connection member and a lower frame connection member, said lower frame connection member being connectable to a front fork of the trailing bicycle and said upper frame connection member being connectable to a portion of the trailing bicycle above said front fork.

21. The bicycle towing device of claim 20, wherein said upper frame connection member includes at least one clamp connectable to an upper portion of the trailing bicycle.

22. The bicycle towing device of claim 21, wherein said upper frame connection member includes a pair of clamps that are connectable to a handlebar of the trailing bicycle, wherein said pair of clamps are spaced apart from each other to allow a neck of the trailing bicycle to fit there between.

23. The bicycle towing device of claim 21, wherein said upper frame connection member comprises a pair of spaced-apart bars, each of said bars having a respective one of said pair of clamps located at an end of each thereof.

24. The bicycle towing device of claim 21, wherein said upper frame connection member comprises a single bar extending away from said lower frame connection member that forks into two prongs with a respective one of said pair of clamps located at an end of each of said prongs.

25. The bicycle towing device of claim 21, wherein said at least one clamp includes at least one interchangeable insert that provides a gripping surface for gripping the trailing bicycle, wherein said at least one interchangeable insert is selectable to provide a desired gripping surface to accommodate a portion of the trailing bicycle to which the clamp is being attached.

26. The bicycle towing device of claim 20, wherein said lower frame connection member includes a pair of spaced-apart members that are spaced apart from each other to allow a front wheel of the trailing bicycle to fit there between, wherein each of said pair of spaced-apart members are connectable to respective portions of the front fork of the trailing bicycle.

27. The bicycle towing device of claim 20, wherein said lower frame connection member and said upper frame connection are both pivotally attached to one another.

28. The bicycle towing device of claim 18, wherein said first clamp is connectable to a seat post of said leading bicycle.

29. The bicycle towing device of claim 18, wherein said first clamp includes at least one interchangeable insert that provides a gripping surface for gripping the leading bicycle, wherein said at least one interchangeable insert is selectable to provide a desired gripping surface to accommodate the portion of the leading bicycle to which the clamp is being attached.

30. The bicycle towing device of claim 18, wherein when connected to said leading bicycle and said trailing bicycle, said bicycle towing device causes said trailing bicycle to lean at substantially the same angle as said leading bicycle at all times.

31. The bicycle towing device of claim 18, wherein said tow bar is removably attachable to said bi-directional joint and said trailing bicycle connection member.